

PATENT
Serial No. 10/030,268
Filing Date: March 19, 2002
Examiner: Michelle Graffeo
Art Unit 1614
Docket No. H 4086 PCT/US

II. Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 – 15. (cancelled)

Claim 16. (currently amended) A composite material comprising: (a) one or more poorly water-soluble phosphate salts of calcium, fluoride salts of calcium, or fluorophosphate salts of calcium, which salts may also contain hydroxyl and/or carbonate groups, the calcium salt or salts being in the form of crystalline, rodlet-like primary nanoparticles having a mean particle diameter of 10 to 300 nm; and (b) one or more proteins, protein hydrolyzates, or protein hydrolyzate derivatives wherein the rodlet-like primary nanoparticles of the calcium salts are uniformly associated onto the skeleton of the protein component.

Claim 17. (previously presented) The composite material of claim 16, wherein the rodlet-like primary particles have a thickness of 2 to 50 nm and a length of 10 to 150 nm.

Claim 18. (previously presented) The composite material of 16, wherein b) comprises one or more substances selected from the group consisting of collagen, gelatine, keratin, casein, wheat protein, rice protein, soya protein, almond protein, and hydrolyzates and hydrolyzate derivatives thereof.

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Claim 19. (previously presented) The composite material of claim 16, wherein b) comprises one or more substances selected from the group consisting of gelatine, casein, and their hydrolyzates.

Claim 20. (previously presented) The composite material of claim 16, wherein the calcium salts are encapsulated with one or more surface modifiers.

Claim 21. (previously presented) The composite material of claim 16, wherein the calcium salts comprise one or more hydroxylapatite or fluorapatite salts.

Claim 22. (cancelled)

Claims 23 – 27. (cancelled)

Claim 28. (previously presented) A toothpaste comprising the composite material of claim 16.

Claim 29 – 30. (cancelled)

Claim 31. (Represented-formerly dependent claim 22) The composite material of claim 16, wherein b) comprises 0.1% to 60% by weight of the composite material.

Claim 32. (Represented-formerly dependent claim 30) The composite material of claim 22 31, wherein b) comprises 0.5% to 10% by weight of the composite material.